

Claim Status

Claims 1-34 (canceled).

Claim 35 (new): A memory device with memory cell comprising:

- a metallic layer;
- a first electrode;
- a porous dielectric layer formed therebetween and having a plurality of pores filled with solid electrolyte material.

Claim 36 (new): The memory cell of claim 35, wherein the solid electrolyte material contacts with the metallic layer.

Claim 37 (new): The memory cell of claim 35, wherein the other surface of the solid electrolyte material contacts with the electrode.

Claim 38 (new): The memory cell of claim 35, wherein the second electrode formed on the metallic layer

Claim 39 (new): A memory device with memory cell comprising a lamination of:

- a metallic layer;
- a conductive layer;
- a porous dielectric layer formed therebetween and having a plurality of pores filled with solid electrolyte material.

Claim 40 (new): The memory cell of claim 39, wherein the first electrode formed on the lamination.

Claim 41 (new): The memory cell of claim 39, wherein the second electrode formed on the other surface of the lamination.